

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) In an internal combustion engine comprising:

a cylinder head;

an ignition plug mounted on said cylinder head for forming a combustion chamber; and

a fuel injector mounted on the cylinder head in proximity to said ignition plug; wherein,

said fuel injector is positioned at a side of an air intake valve which introduces air to said combustion chamber; and

said ignition plug is positioned at a side of an exhaust valve which exhausts an exhaust gas from said combustion chamber wherein said fuel injector injects in advance an injection spray portion having a long penetration, and thereafter injects an injection spray portion having a short penetration.

2. (ORIGINAL) The internal combustion engine according to Claim 1, wherein:

two intake valves are provided;

said fuel injector is positioned intermediate said two intake valves;

two exhaust valves are provided; and

said ignition plug is positioned intermediate said two exhaust valves.

3. (ORIGINAL) The internal combustion engine according to Claim 1, wherein said ignition plug is mounted on an inclined face of said cylinder head.

4. (ORIGINAL) The internal combustion engine according to Claim 1, wherein said fuel injection is formed with a porous injection hole type injector.

5. (CANCELED).

6. (NEW) The internal combustion engine according to Claim 1,
wherein

said fuel injector provides both a fuel spray having a long penetration at a side of said ignition plug and a fuel spray having a short penetration at a remote side from said ignition plug by sandwiching said fuel spray having said long penetration; and

said fuel injector is installed to said cylinder head.

7. (NEW) The internal combustion engine according to Claim 1,
wherein

said fuel injector has a fuel swirling mechanism for imparting a swirl force against the fuel at an upstream side of a valve seat; and

said fuel injector is installed to said cylinder head.

8. (NEW) The internal combustion engine according to Claim 1,
wherein

when a fuel spray from said fuel injector is cross-sectioned according to a plane including said ignition plug and said fuel injector, said fuel spray from said fuel injector presents an asymmetrical fuel spray shape against a center axial line of said fuel injector; and

said fuel injector is installed to say cylinder head.